

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-003183**Date Inspected:** 12-Apr-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies (OBG).**Bid Item:** 77,78,79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

Shim Plates X3277L (30 Each), L-Splices (138 Each) and Crash Barriers (11 Each), NOI Number 6167: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Shim Plates X3277L (30 Each), L-Splices (138 Each) and Crash Barriers (11 Each). Test results recorded x1 soluble salts readings of 17.2 (µs/cm) and x3 surface profile readings of 76 to 82 µm. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required grinding and blasting.

Maintenance Traveler Rail Splices 20TR2 (126 Each), Ladder Drawing Number 3003R (1 Each), Dehumidifier Platform Handrails (RL3022, RL3021, RL3022A and RL3022B), CB16 Platform M3000A, and Bike Path Panels (BK4A-059 and BK4A-032), NOI Number 6169: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Maintenance Traveler Rail Splices 20TR2 (126 Each), Ladder Drawing Number 3003R (1 Each), Dehumidifier Platform Handrails (RL3022, RL3021, RL3022A and RL3022B), CB16 Platform M3000A, and Bike Path Panels (BK4A-059 and BK4A-032).

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No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Shim Plates X3277L (30 Each), L-Splices (138 Each) and Crash Barriers (11 Each), NOI Number 6171: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Shim Plates X3277L (30 Each), L-Splices (138 Each) and Crash Barriers (11 Each). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection x5 Crash Barriers due to needed weld repairs. No other discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices (543 Each), Channels (20 Each), Anchor Bearing Blocks (4 Each) and Cat Way (40 Each), NOI Number 6175: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices (543 Each), Channels (20 Each), Anchor Bearing Blocks (4 Each) and Cat Way (40 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection x4 Splices and x8 Channels. No other discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers (20 Each), NOI Number 6176: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Crash Barriers (20 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). All test results were acceptable and within desired limits with x2 MEK @ grade 5, x1 MEK @ grade 4 and x1 soluble salts recorded reading of (21.9 μ s/cm). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By:	Cason,Kenneth
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Quality Assurance Inspector

Reviewed By:	Miller,Mark
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QA Reviewer
